



CLARK COUNTY • DEPARTMENT OF AIR QUALITY
4701 W Russell Rd., Suite 200 • 2nd Floor • Las Vegas NV 89118-2231
(702) 455-5942 • Fax (702) 383-9994

For DAQ Use Only

STONE CUTTING AND FINISHING OPERATIONS ANNUAL EMISSIONS INVENTORY REPORT

Source ID (Permit) Number: _____ **Reporting Year:** _____
Company Name _____
Source (Facility) Name _____
Source (Facility) Address _____
City, State, and Zip _____
Mailing Address _____
(If different than facility address) _____

1. How many linear feet of granite, marble, stone were cut at your facility during the calendar year of this report? _____ feet
2. How many linear feet of granite, marble, stone were edged at your facility during the calendar year of this report? _____ feet
3. How many square feet of granite, marble, stone were finished at your facility during the calendar year of this report? _____ sq ft
4. Method of Measurement for stone cutting, edging and finishing: _____
5. Gallons of adhesive were used at your facility during the calendar year of this report? _____ gallons
6. What is the volatile organic compound (VOC) content (lbs/gallon) of the adhesive?
(Note: VOC content is specified in the Material Safety Data Sheet (MSDS) for the adhesive) _____ lbs./gallon
7. Gallons of solvent used at your facility during the calendar year of this report:
(Note: Do not include Acetone usage in this report) _____ gallons
8. What is the VOC content (lbs/gallon) of the solvent?
(Note: VOC content is specified in the MSDS for the adhesive) _____ lbs./gallon
9. Method of Measurement for adhesive and/or solvent usage: _____
10. Actual PM₁₀ emissions from stone cutting, edging and finishing:
(Note: Please refer to the directions on Page 2.) _____ tons/year
11. Actual VOC emissions from adhesive(s) used at the facility: _____ tons/year
12. Actual VOC emissions from solvent(s) used at the facility:
(Note: Do not quantify Acetone usage) _____ tons/year

I certify that, based on information and belief formed after reasonable inquiry, the information contained in this document is true, accurate and complete.

Signature of Responsible Official

Signature Date

Responsible Official Print Name and Title: _____

Phone Number: _____ Cellular Number: _____

Responsible Official Email Address: _____

Please complete this form to the best of your knowledge electronically. Print and submit the completed report with the Responsible Official's original (wet) signature to the Department of Air Quality by mail or in person at the address listed above.

Directions for completing the form manually – Calculation Worksheet

- **Cutting - To calculate actual PM₁₀ emissions from granite, marble and stone cutting, in tons/year:** Take the total annual linear feet of granite, marble and stone cut at the facility, for the reporting year and multiply the value by 0.146 lbs/ft. The result is then multiplied by 0.10 (90% moisture control) and the total is divided by 2000 lbs (round this to 2 decimal places) to yield tons/yr cut granite, marble and/or stone.

Example: A facility cut 10,000 linear feet of granite, marble and/or stone in a reporting year.

Calculation: $10,000 \times 0.146 \times 0.10 \div 2,000 = 0.07$ tons/year PM₁₀.

- **Edging - To calculate actual PM₁₀ emissions from granite, marble and stone edging, in tons/year:** Take the total annual linear feet of granite, marble and stone edged at the facility, for the reporting year, and multiply the value by 0.283 lbs/ft. The result is then multiplied by 0.10 (90% moisture control) and the total is divided by 2000 lbs (round this to 2 decimal places) to yield tons/yr cut granite, marble and/or stone.

Example: A facility edged 10,000 linear feet of granite, marble and/or stone in a reporting year.

Calculation: $10,000 \times 0.283 \times 0.10 \div 2,000 = 0.14$ tons/year PM₁₀.

- **Polishing/grinding - To calculate actual PM₁₀ emissions from granite, marble and stone polishing/grinding, in tons/year:** Take the total annual square feet of granite, marble and/or stone polished/ground at the facility, for the reporting year, and multiply the value by 0.169 lbs/ft². The result is then multiplied by 0.10 (90% moisture control), if automated water hand tools are mandated in the permit. If not, leave out this step. In both cases, the total is divided by 2000 lbs (rounded to 2 decimal places) to yield tons/yr of polished/ground granite, marble and stone.

Example: A facility polished/ground 10,000 square feet of granite, marble and/or stone in a reporting year.

For automated water hand tools, Calculation: $10,000 \times 0.169 \times 0.10 \div 2,000 = 0.08$ tons/year.

For a facility, that is **not** mandated to use automated water hand tools;

Calculation: $10,000 \times 0.169 \div 2,000 = 0.85$ tons/yr PM₁₀.

VOC Emissions - To calculate actual VOC emissions, in tons/year: Take each VOC-containing material (adhesive(s) and solvent(s)) used during the reporting year, in gallons, and multiply the gallons for each product by its VOC content, in lbs/gallon. The VOC content of a product will be stated in the Material Safety Data Sheet (MSDS) for each product. Divide the result by 2000 lbs (rounded to 2 decimal places) to yield tons/yr of VOC emissions.

Note: Do not quantify Acetone usage.

Example: A facility utilized 500 gallons of adhesive, and 500 gallons of mineral spirit solvent in a reporting year.

The adhesive has a VOC content of 5.8 lbs/gallon, per its MSDS.

Adhesive emissions are calculated as followed: $500 \times 5.8 \div 2000 = 1.5$ tons/yr.

The solvent has a VOC content of 4.9 lbs/gallon, per its MSDS.

Solvent emissions are calculated as followed: $500 \times 4.9 \div 2000 = 1.2$ tons/yr

If you have any questions or need clarification on or assistance in completing this form, please contact Air Quality at (702) 455-5942.